

SRTZ2610 SRTZ2610F LRTZ2610

## **WARNING**

Before using our products, please read this manual carefully to understand the proper use of your unit.

#### **EC DECLARATION OF COMFORMITY**

Ve, Husqvarna Zenoah Co., Ltd.

1-9, Minamidai, Kawagoe, Saitama, Japan

declare in sole responsibility that the following products referred to

in this declaration conform with

DIRECTIVE 98/37/EC,

prEN774 of 5th April 1994.

The products referred are:

DESIGNATION: SHORT REACH TRIMMERS/LONG REACH TRIMMERS

MODELS: SRTZ2610/SRTZ2610F /LRTZ2610

SERIAL NUMBERS: 80100101 and up

The company named above will keep on file the following technical documentation for any inspection furpose.

- · Operation instructions as confirmed
- · Plans and Drawings
- · Description of measures designed to ensure conformity
- $\cdot \ \, \text{Other technical documentation} \quad : \underline{\text{Specification sheet}} \\$

: Inspection standard

Saitama, Japan,

1st January 2008

Masahiko GOUDA

General Manager, Quality Assurance Department

#### **EXPLANATION OF SYMBOLS AND SAFETY WARNINGS**



# WARNING!!! RISK OF DAMAGING HEARING Wear head, eye and ear protection.



	Lwa
1	10 <sub>dB</sub>

MODE	L		SOUND LEVEL	VIBRATION LEVEL		
		prEN774 ISO 11094		ISO 7916		
		LρΛον	LwA	ahv, eq	A(8)	
		LpAav	guaranteed	ariv, eq	A(0)	
SRTZ2610	25.4 cm <sup>3</sup>	94 dB(A)	110 dB(A)	6.6 m/s <sup>2</sup>	3.4 m/s <sup>2</sup>	
SRTZ2610F	25.4 cm <sup>3</sup>	94 dB(A)	110 dB(A)	11.1 m/s <sup>2</sup>	5.6 m/s <sup>2</sup>	
LRTZ2610	25.4 cm <sup>3</sup>	99 dB(A)	110 dB(A)	5.5 m/s <sup>2</sup>	2.8 m/s <sup>2</sup>	

APPROVAL NUMBER OF CE EXHAUST EMISSION REGULATION
DIRECTIVE 97/68/EC AMENDED 2002/88/EC
e13\*97/68SH2G3\*2002/83\*0404\*00

#### A SAFETY FIRST

Instructions contained in warnings within this manual marked with a  $\triangle$  symbol concern critical points which must be taken into consideration to prevent possible serious bodily injury, and for this reason you are requested to read all such instructions carefully and follow them without fail.

#### **WARNINGS IN THE MANUAL**

#### **A** WARNING

This mark indicates instructions, which must be followed in order to prevent accidents, which could lead to serious bodily injury or death.

#### **●** IMPORTANT

This mark indicates instructions, which must be followed, or it leads to mechanical failure, breakdown, or damage.

#### **M** NOTE

This mark indicates hints or directions useful in the use of the product.

#### **Contents**

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#### **Information**

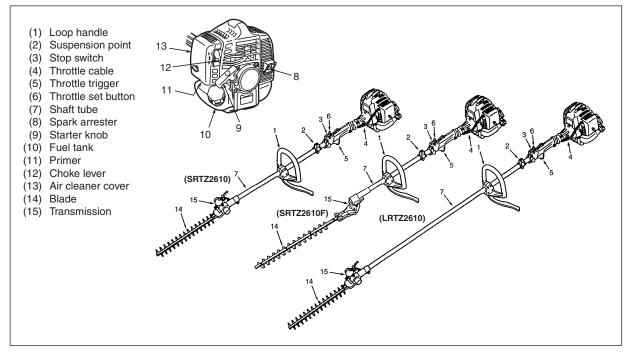
This machine is equipped with an Overload Cancellation Mechanism.

When the cutting blades have got into metal wires or twigs difficult to cut, the mechanism works as a shock absorber, and protects the gears and the blades from severe reaction which could give damage to those parts. When the blades are frequently caught by twigs, please check the following points:

- 1. Size of the twigs --> A Never try to cut twigs thicker than 5 mm.
- 2. Condition of the blade edges --> A Replace the worn-out blades.

Thank you for choosing our product.

## 1. Parts location



## 2. Specification

Model			SRTZ2610	SRTZ2610F	LRTZ2610		
Overall size (LxWxH) mm			1725 x 400 x 365	1734 x 338 x 254	2300 x 400 x 365		
Dry weight * kg			6.4	6.4 6.5			
Engine Type			Air-cooled 2-stroke gasoline				
	Model		Zenoah GZ25N				
Max output rpm			1.2Hp (0.9kW) at 7500min <sup>-1</sup>				
Idle speed rpm			3000±200min <sup>-1</sup>				
Displacement cm <sup>3</sup>			25.4				
Fuel			Mixture (Gasoline 50 : Oil 1) (when using ZENOAH genuine oil)				
	Carburetor		Walbro Diaphragm type				
	Spark plug		NGK CMR7A				
Fuel tank capacity L			0.65				
Transmission			Centrifugal clutch, Spiral bevel gear, Cam crank				
Reduction	ratio		4.0 4.25 4.0				

Specifications are subject to change without notice.

## 3. Warning labels on the machine



(1) Warning / Attention



(2) Read owner's manual before operating this machine.



(3) Wear head, eye and ear protection.



(4) Keep hands away from cutting blades.



If warning label peels off or becomes soiled and impossible to read, you should contact the dealer from which you purchased the product to order new labels and affix them in the required location(s).



Never modify your machine.

We won't warrant the machine, if you use the remodeled trimmer or if you don't observe the proper usage written in the manual.

# 4. Symbols on the machine

For safe operation and maintenance, symbols are carved in relief on the machine. According to these indications, please be careful not to make a mistake.

The port to refuel the "MIX GASOLINE"



Position: FUEL TANK CAP



The direction to close the choke **Position:** ENGINE COVER



The direction to open the choke **Position:** ENGINE COVER

<sup>\*</sup> Shoulder strap and protective cover are not included.

## ▲ 5. For safe operation



you completely understand and follow all safety and operating instructions.

1. Read this manual carefully until

2. Keep this manual handy so that you may refer to it later whenever any questions arise. Also note, if you have any questions which cannot be answered herein, contact the dealer from whom you purchased the prod-



- 3. Always be sure to include this manual when selling, lending, or otherwise transferring the ownership of this product.
- 4. Never allow children or anyone unable to fully understand the directions given in the manual to use the machine.



#### **WORKING CONDITION**

- 1. When using the product, you should wear proper clothing and protective equipment.
  - (1) Helmet
  - (2) Ear protectors
  - (3) Protection goggles or face protector
  - (4) Thick work gloves
  - (5) Non-slip-sole work boots
- 2. And you should carry with you.
  - (1) Attached tools
  - (2) Properly reserved fuel
  - (3) Spare blade
  - (4) Things to notify your working area (rope, warning signs)
  - (5) Whistle (for collaboration or emergency)
  - (6) Hatchet or saw (for removal of obstacles)



3. Do not wear loose clothing, jewelry, short trousers, sandals, or go barefoot. Do not wear anything which might be caught by a moving part of the unit. Secure hair so it is above shoulder length.



#### **WORKING CIRCUMSTANCE**

- 1. Never start the engine inside a closed room or building. Exhaust gases contain dangerous carbon monoxide.
- 2. Never use the product,
  - a. when the ground is slippery or when you can't maintain a steady posture.



- b. At night, at times of heavy fog, or at any other times when your field of vision might be limited and it would be difficult to gain a clear view of the working area.
- c. During rain storms, during lightning storms, at times of strong or gale-force winds, or at any other times when weather conditions might make it unsafe to use the product.



#### **WORKING PLAN**

- 1. You should never use the product when under the influence of alcohol, when suffering from exhaustion or lack of sleep, when suffering from drowsiness as a result of having taken cold medicine or at any other time when a possibility exists that your judgment might be impaired or that you might not be able to operate the product properly and in a safe manner.
- 2. When planning your work schedule, allow plenty of time to rest. Limit the amount of time over which the product is to be used continuously to somewhere around 30 ~ 40 minutes per session, and take 10 ~ 20 minutes of rest between work sessions. Also try to keep the total amount of work performed in a single day



#### **▲** WARNING

under 2 hours or less.



- 1. If you don't observe the working time, or working manner (See "USING THE PRODUCT"), Repetitive Stress Injury (RSI) could occur.
  - If you feel discomfort, redness and swelling of your fingers or any other part of your body, see a doctor before getting worse.
- 2. To avoid noise complaints, in general, operate product between 8 a.m. and 5 p.m. on weekdays and 9 a.m. to 5 p.m. on weekends.



Check and follow the local regulations as to sound level and hours of operations for the product. GB-5

## **▲** 5. For safe operation

## BEFORE STARTING THE ENGINE



- 1. The area within a perimeter of 15 m (50 ft) of the person using the product should be considered a hazardous area into which no one should enter. If necessary. vellow warning rope, warning signs should be placed around the perimeter of the area. When work is to be performed simultaneously by two or more persons, care should also be taken to constantly look around or otherwise check for the presence and locations of other people working so as to maintain a distance between each person sufficient to ensure
- 2. Check the condition of working area to avoid any accident by hitting hidden obstacles such as stumps, stones, cans, or broken glass.



#### **Q** IMPORTANT

Remove any obstacle before beginning work.

- Inspect the entire unit for loose fasteners and fuel leakage. Make sure that the cutting attachment is properly installed and securely fastened.
- 4. Always use the shoulder strap. Adjust the strap for comfort before starting the engine. The strap should be adjusted so the left hand can comfortably hold the handlebar grip approximately waist high.

#### STARTING THE ENGINE

- Keep bystanders and animals at least 15 m (50 ft) away from the operating point. If you are approached, immediately stop the engine.
- 2. The product is equipped with a centrifugal clutch mechanism, so the cutting attachment begins to move as soon as the throttle lever is pulled. When starting the engine, place the product onto the ground in a flat clear area and hold it firmly in place so as to ensure that neither the cutting part nor the throttle come into contact with any obstacle when the engine starts.





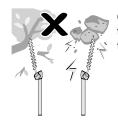
#### **A** WARNING

Never place the throttle into the high-speed position when starting the engine.

3. After starting the engine, check to make sure that the cutting attachment stops moving when the throttle is moved fully back to its original position. If it continues to move even after the throttle has been moved fully back, turn off the engine and take the unit to your authorized ZENOAH servicing dealer for repair.

#### **USING THE PRODUCT**

#### **•** IMPORTANT



Cut only materials recommended by the manufacturer. And use only for tasks explained in the manual.

- Grip the handles firmly with both hands using your whole hand. Place your feet slightly apart (slightly further apart than the width of your shoulders) so that your weight is distributed evenly across both legs, and always be sure to maintain a steady, even posture while working.
- Maintain the speed of the engine at the level required to perform cutting work, and never raise the speed of the engine above the level necessary.
- 3. If the unit starts to shake or vibrate, turn off the engine and check the whole unit. Do not use it until the trouble has been properly corrected.
- Keep all parts of your body away from moving cutting attachment and hot surfaces.
- 5. Never touch the muffler, spark plug, or other metallic parts of the engine while the engine is in operation or immediately after shutting down the engine. Doing so could result in serious burns or electrical shock.





## **▲** 5. For safe operation

#### • IF SOMEONE COMES

- Guard against hazardous situations at all times. Warn adults to keep pets and children away from the area. Be careful if you are approached. Injury may result from flying debris.
- If someone calls out or otherwise interrupts you while working, always be sure to turn off the engine before turning around.

#### **MAINTENANCE**



- In order to maintain your product in proper working order, perform the maintenance and checking operations described in the manual at regular intervals.
- Always be sure to turn off the engine before performing any maintenance or checking procedures.

#### **▲** WARNING

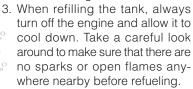
The metallic parts reach high temperatures immediately after stopping the engine.

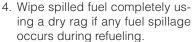
- When replacing the cutting attachment or any other part, or when replacing the oil or any lubricant, always be sure to use only ZENOAH products or products which have been certified by ZENOAH for use with the ZENOAH product.
- 4. In the event that any part must be replaced or any maintenance or repair work not described in this manual must be performed, please contact a representative from the store nearest ZENOAH authorized servicing dealer for assistance.
- Do not use any accessory or attachment other than those bearing the ZENOAH mark and recommended for the unit.
- Under no circumstances should you ever take apart the product or alter it in any way. Doing so might result in the product becoming damaged during operation or the product becoming unable to operate properly.

Refill afte cooling the

#### **HANDLING FUEL**

- 1. The engine of the ZENOAH product is designed to run on a mixed fuel, which contains highly flammable gasoline. Never store cans of fuel or refill the tank of the unit in any place where there is a boiler, stove, wood fire, electrical sparks, welding sparks, or any other source of heat or fire which might ignite the fuel.
- 2. Never smoke while operating the unit or refilling its fuel tank.





 After refueling, screw the fuel cap back tightly onto the fuel tank and then carry the unit to a spot 3 m or more away from where it was refueled before turning on the engine.



#### **TRANSPORTATION**

- When hand-carrying the product, cover over the cutting part if necessary, lift up the product and carry it paying attention to the blade.
- Never transport the product over rough roads over long distances by vehicle without removing all fuel from the fuel tank. If doing so, fuel might leak from the tank during transport.





## 6. Set up

#### **MOUNTING ENGINE**

- Push the shaft tube toward the clutch housing and move it by hand to check that the drive shaft is engaged with the gears.
- Insert the shaft tube into the clutch housing until it bottoms, and align the positioning holes on the clutch housing and the shaft tube and install the screw. When difficult to engage, twist the engine slightly.
- 3. Fasten the clamp securely with two screws.



#### **A** WARNING

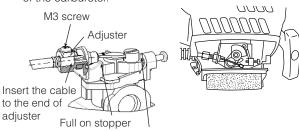
Never use any screws other than those specified by the manufacturer, or the engine can get loose, resulting in a hazardous event.

#### **1** IMPORTANT

Tighten the screws gradually by turns.

#### **CONNECTING THROTTLE WIRE**

- 1. Remove the air cleaner cover.
- Connect the end of the throttle wire to the joint on the top of the carburetor.

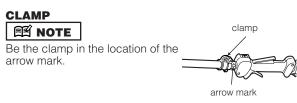


Idling adjust screw

- Connect throttle wire with carburetor. Insert the cable to the end of adjuster fix the throttle cable by tightening M3 screw. (Tightening torque: 0.4 ~ 0.8 N.m.)
- Make sure the 'STOPPER-PLATE' of carburetor moves to contact with 'IDLING ADJUST SCREW' and the 'SWING-ARM' of carburetor moves to contact with 'FULL ON STOPPER' by gripping throttle lever.

#### **CONNECTING SWITCH WIRES**

 Connect the switch wires between the engine and the main unit. Pair the wires of the same color.



## INSTALLING HANDLE IN NOTE

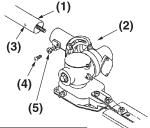
The handle is put during the arrow mark.

• Mount the handle to the shaft tube and clamp it at a location that is comfortable to you.

About 19 inches (48 cm)

#### ATTACHING THE TRIMMING MECHANISM

- 1. Remove the cap on the end of the main pipe.
- Remove the screw screwed into the end of the trimming mechanism.
- 3. Insert the end of the trimming mechanism into the main pipe.
- 4. Line up the hole on the end of the trimming mechanism into which the screw is to be inserted with the hole on the main pipe, and screw the screw firmly in.
- 5. Using a 10-mm wrench, screw in the hexagonal bolt provided to fix the trimming mechanism into place.



- (1) Main pipe
- (2) Trimming mechanism
- (3) Screw hole
- (4) Screw
- (5) Fastening bolt

#### **A** WARNING

## ALWAYS WEAR THE PROVIDED HARNESS WHEN USING THE MACHINE!

Always make sure the machine is hooked securely to the harness.

If you don't, you will be unable to control the machine safely. This can result in injury to yourself or others. Never use a harness with a defective quick release or any other damage.

#### **HOW TO WEAR**

 Wear the provided harness without twisted bands, with the hanger on your right side.

(1) Hanger

# (1)

#### **QUICK RELEASE**

The harness is equipped with a "QUICK RELEASE" devise. To release the machine from the harness in emergency situations, please follow the procedure as explained below.

#### **A** WARNING

Make sure to check proper working of the QUICK RE-LEASE device BEFORE operating the machine. Make sure to hold the unit securely when using the QUICK RELEASE.

While holding the unit by your right hand securely, press both sides of the buckle. sides of the buckle.

(1) Buckle

#### **BALANCE UNIT**

- 1. Put on strap and attach unit to strap.
- 2. Depending on the working posture, slide clamp up or down until unit balances and the strap fits your body.

## 7. Fuel

#### **■** FUEL

#### **A** WARNING

 Gasoline is very flammable. Avoid smoking or bringing any flame or sparks near fuel. Make sure to stop the engine and allow it cool before refueling the unit. Select outdoor bare ground for fueling and move at least 3 m (10 ft) away from the fueling point before starting the engine.



- The Zenoah engines are lubricated by oil specially formulated for air-cooled 2-cycle gasoline engine use. If Zenoah oil is not available, use an anti-oxidant added quality oil expressly labeled for air-cooled 2-cycle engine use (JASO FC GRADE OIL or ISO EGC GRADE).
- Do not use BIA or TCW (2-stroke water-cooling type) mixed oil.



## ■ RECOMMENDED MIXING RATIO GASOLINE 50 : OIL 1

(when using ZENOAH genuine oil)

- Exhaust emission are controlled by the fundamental engine parameters and components (eq., carburation, ignition timing and port timing) without addition of any major hardware or the introduction of an inert material during combustion.
- These engines are certified to operate on unleaded gasoline.
- Make sure to use gasoline with a minimum octane number of 89RON (USA/Canada: 87AL).
- If you use a gasoline of a lower octane value than prescribed, there is a danger that the engine temperature may rise and an engine problem such as piston seizing may consequently occur.
- Unleaded gasoline is recommended to reduce the contamination of the air for the sake of your health and the environment.
- Poor quality gasolines or oils may damage sealing rings, fuel lines or fuel tank of the engine.

#### **■ HOW TO MIX FUEL**

#### **•** IMPORTANT

Pay attention to agitation.

- Measure out the quantities of gasoline and oil to be mixed.
- Put some of the gasoline into a clean, approved fuel container.

- 3. Pour in all of the oil and agitate well.
- 4. Pour in the rest of gasoline and agitate again for at least one minute. As some oils may be difficult to agitate depending on oil ingredients, sufficient agitation is necessary for the engine to last long. Be careful that, if the agitation is insufficient, there is an increased danger of early piston seizing due to abnormally lean mixture.
- Put a clear indication on the outside of the container to avoid mixing up with gasoline or other containers.
- Indicate the contents on outside of container for easy identification.

#### **■ FUELING THE UNIT**

- 1. Untwist and remove the fuel cap. Rest the cap on a dustless place.
- 2. Put fuel into the fuel tank to 80% of the full capacity.
- 3. Fasten the fuel cap securely and wipe up any fuel spillage around the unit.

#### **A** WARNING

- 1. Select bare ground for fueling.
- Move at least 10 feet (3 meters) away from the fueling point before starting the engine.
- Stop the engine before refueling the unit. At that time, be sure to sufficiently agitate the mixed gasoline in the container.

#### ■ FOR YOUR ENGINE LIFE, AVOID:

- FUEL WITH NO OIL (RAW GASOLINE) It will cause severe damage to the internal engine parts very quickly.
- GASOHOL It can cause deterioration of rubber and/ or plastic parts and disruption of engine lubrication.
- OIL FOR 4-CYCLE ENGINE USE It can cause spark plug fouling, exhaust port blocking, or piston ring sticking.
- Mixed fuels which have been left unused for a period of one month or more may clog the carburetor and result in the engine failing to operate properly.
- In the case of storing the product for a long period of time, clean the fuel tank after rendering it empty. Next, activate the engine and empty the carburetor of the composite fuel.
- In the case of scrapping the used mixed oil container, scrap it only at an authorized repository site.

## **■ NOTE**

As for details of quality assurance, read the description in the section Limited Warranty carefully. Moreover, normal wear and change in product with no functional influence are not covered by the warranty. Also, be careful that, if the usage in the instruction manual is not observed as to the mixed gasoline, etc. described therein, it may not be covered by the warranty.

## 8. Operation

#### STARTING ENGINE

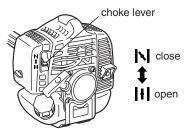
#### **A** WARNING

The cutting head will start moving upon the engine starts.

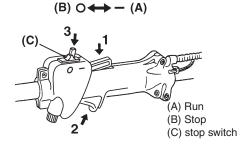
- 1. Rest the unit on a flat, firm place. Keep the cutting head off the ground and clear of surrounding objects as it will start moving upon starting of the engine.
- 2. Push the primer several times until overflown fuel flows out in the clear tube.



3. Move the choke lever to the closed position.



4. Set the stop switch to the "RUN" position. While pulling the throttle lever(1,2), push the throttle set button(3), and release the throttle(2), then the throttle lever is in to the "start position".



While holding the unit firmly, pull out the starter rope quickly until engine fires.



#### **9** IMPORTANT

Avoid pulling the rope to its end or returning it by releasing the knob. Such actions can cause starter failures.

- 6. Move the choke lever downward to open the choke. And restart the engine.
- 7. Allow the engine to warm up for a several minutes before starting operation.

#### **■ NOTE**

- 1. When restarting the engine immediately after stopping it, leave the choke open.
- Overchoking can make the engine hard to start due to excess fuel. When the engine failed to start after several attempts, open the choke and repeat pulling the rope, or remove the spark plug and dry it.

#### **STOPPING ENGINE**

- Release the throttle lever and run the engine for a half minute.
- 2. Shift the stop switch to the "Stop" position.

#### **•** IMPORTANT

Except for an emergency, avoid stopping the engine while pulling the throttle lever.

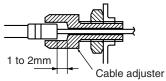
#### **9** IMPORTANT

When it doesn't stop at the stop switch, move the choke lever to the closed position.



#### **ADJUSTING THROTTLE CABLE**

The normal play is 1 or 2mm when measured at the carburetor side end. Readjust with the cable adjuster as required.



## 8. Operation

#### **ADJUSTING IDLING SPEED**

- 1. When the engine tends stop frequently at idling mode, turn the adjusting screw clockwise.
- 2. When the cutting head keeps moving after releasing the trigger, turn the adjusting screw counter-clockwise.



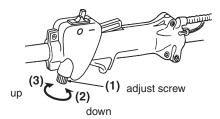
#### **™ NOTE**

Warm up the engine before adjusting the idling speed.

#### **ADJUSTING THE MAXIMUM SPEED**

- The screw at the throttle lever is for adjusting the maximum rpm.
- Turning the screw crock-wise, the rpm becomes down, the otherwise, the rpm becomes up. (STANDARD OP-ERATION SPEED: 8000 to 9500 rpm)

Running engine with faster engine speed than 9500 rpm may damage the engine, slower engine speed than 8000 rpm may cause of the poor cutting ability.



#### **A** WARNING

- This product is equipped with extremely sharp blades, and when used improperly these blades can be extremely dangerous, and improper handling can cause accidents which may in turn lead to serious injury or death. For this reason, you should always be careful to follow the following instructions when using your trimmer.
- Never hold the trimmer in a way in which the blades are pointed towards someone else.
- Never allow the blades to come into proximity with your body while the engine of the trimmer is in operation.
- Always be sure to turn off the engine before changing the angle of the blades, removing branches which have become stuck in the blades, or at any other time when coming into close proximity with the blades.
- Always wear work gloves made of leather or some other sturdy material when using the trimmer.
- Always place the blade cover provided with the trimmer over the blades when not in use.
- Falling branches may fall onto the face or into the eyes,

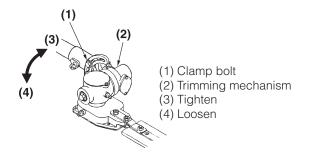
resulting in injuries, scratches, and cuts, and for this reason you should always be sure to wear a helmet and face protector when using your trimmer.

#### **™ NOTE**

 The thickness of branches which may be cut using this trimmer is limited to up to approximately 4.8mm.
 Never try to cut branches thicker than this, as doing so may result in damage to the trimmer.

## ADJUSTING THE ANGLE OF THE CUTTING BLADES

- 1. Stop the trimmer engine.
- 2. Turn the bolt located on the top of the trimming mechanism counter-clockwise to loosen it.
- 3. Adjust the angle of the blades to the desired angle, and then fix the bolt firmly back into place.





## 9. Maintenance

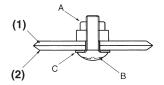
#### **MAINTENANCE CHART**

	System/components	Procedure	Before use	Every 25 hours after	50	Every 100 hours after	Note
	fuel leaks, fuel spillage	wipe out	~				
	fuel tank, air filter, fuel filter	inspect/clean	~	>			replace, if necessary
	idle adjusting screw	see adjusting	~				replace carburetor
뷛	Tale dajaeting cerew	idling speed					if necessary
ENGINE	spark plug	clean and readjust			V		GAP: .025 in (0.6 ~ 0.7 mm)
		plug gap					replace, if necessary
	cylinder fins, intake air cooling vent	clean		~			
	muffler, spark arrester, cylinder exhaust port	clean, remove piled up carbon				~	
SHAFT	throttle lever, stop switch	check operation	~				
	cutting parts	replace if something's wrong	~				
lΩ	transmission, cutter case	grease		>			
	screws/nuts/bolts	tighten/replace	~			<b>V</b>	not adjusting screws

- Before cleaning, inspecting, or repairing the unit, make sure that the engine has stopped and is cool.
- Use protective gloves whenever inspecting, removing, sharpening, and installing the blades.

#### **BLADES**

- When refilling the tank or resting, it is often a good idea to use the time to oil the cutting blades.
- If a gap exists between the upper and lower blades, follow the procedure below to adjust them so that they fit more closely together.
- Loosen lock nut (A) as shown in the diagram.
- 2. Tighten screw (B) fully, and then turn one-third to one-half of a rotation backward.
- 3. While holding onto the screw to keep it in position, tighten the lock nut.
- 4 .Check to make sure that the flat washer (C) is loose enough so that it may be turned by pressing on it with a finger.



- (1) Upper blade
- (2) Lower blade

## **™ NOTE**

Screwing in the screw too tightly may make it impossible for the blades to move. Conversely, not screwing in the screw tightly enough may make the blades of the trimmer feel dull and cause leaves and branches to become caught in the blades of the trimmer.

#### **QUICK TIP**

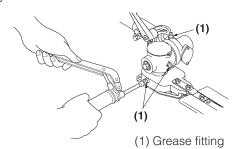
 If the blades become so worn down that it is no longer possible to eliminate the gap between them, you should contact the authorized ZENOAH servicing dealer from which you purchased your ZENOAH trimmer to have the blades resharpened or replaced.

#### **TRANSMISSION**

- The inside of the transmission should be lubricant using ZENOAH-approved lubricant after every 25 hours of use.
- When adding lubricant, use a grease gun to insert lubricant into the three grease nipples located on the transmission.

#### TYPE OF LUBRICANT TO BE USED

Always be sure to use #2 lithium heat-resistant lubricant.



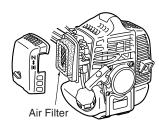
## 9. Maintenance

#### **A** WARNING

Make sure that the engine has stopped and is cool before performing any service to the machine. Contact with moving cutting head or hot muffler may result in a personal injury.

#### **AIR FILTER**

The air filter, if clogged, will reduce the engine performance. Check and clean the filter element in warm, soapy water as required. Dry completely before installing. If the element is broken or shrunk, replace with a new one.



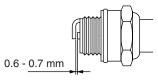
#### **FUEL FILTER**

 When the engine runs short of fuel supply, check the fuel cap and the fuel filter for blockage.s



#### **SPARK PLUG**

 Starting failure and mis-firing are often caused by a fouled spark plug. Clean the spark plug and check that the plug gap is in the correct range. For a replacement plug, use the correct type specified by ZENOAH.



REPLACEMENT PLUG IS A NGK CMR7H.

#### **O** IMPORTANT

- Note that using any spark plug other than those designated may result in the engine failing to operate properly or in the engine becoming overheated and damaged.
- To install the spark plug, first turn the plug until it is finger tight, then tighten it a quarter turn more with a socket wrench.

TIGHTENING TORQUE:  $9.8 \sim 11.8 \text{ N.m.}$   $(1 \sim 1.2 \text{ kg.m.})$ 

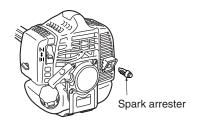
#### **MUFFLER**

#### **A** WARNING

- Inspect periodically, the muffler for loose fasteners, any damage or corrosion. If any sign of exhaust leakage is found, stop using the machine and have it repaired immediately.
- Note that failing to do so may result in the engine catching on fire.

#### **SPARK ARRESTER**

 The muffler is equipped with a spark arrester to prevent red hot carbon from flying out of the exhaust outlet. Periodically inspect and clean as necessary with a wire brush.



## 9. Maintenance

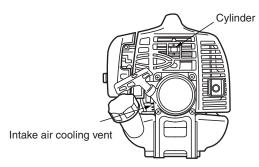
#### **INTAKE AIR COOLING VENT**

#### **A** WARNING

- Never touch the cylinder, muffler, or spark plugs with your bare hands immediately after stopping the engine. The engine can become very hot when in operation, and doing so could result in severe burns.
- When checking the machine to make sure that it is okay before using it, check the area around the muffler and remove any wood chips or leaves which have attached themselves to the machine. Failing to do so could cause the muffler to become overheated, and that this in turn could cause the engine to catch on fire. Always make sure that the muffler is clean and free of wood chips, leaves, and other waste before use.
- Check the intake air cooling vent and the area around the cylinder cooling fins after every 25 hours of use for blockage, and remove any waste which has attached itself to the machine. Note that it is necessary to remove the engine cover shown in (A) in order to be able to view the upper part of the cylinder.

#### **•** IMPORTANT

 If waste gets stuck and causes blockage around the intake air cooling vent or between the cylinder fins, it may cause the engine to overheat, and that in turn may cause mechanical failure on the part of the machine.



## PROCEDURES TO BE PERFORMED AFTER EVERY 100 HOURS OF USE

- Remove the muffler, insert a screwdriver into the vent, and wipe away any carbon buildup. Wipe away any carbon buildup on the muffler exhaust vent and cylinder exhaust port at the same time.
- 2. Tighten all screws, bolts, and fittings.
- 3. Check to see if any oil or grease has worked its way in between the clutch lining and drum, and if it has wipe it away using oil-free, lead-free gasoline.



## 10. Storage

- Aged fuel is one of major causes of engine starting failure. Before storing the unit, empty the fuel tank and run the engine until it uses all the fuel left in the fuel line and the carburetor. Store the unit indoor taking necessary measures for rust prevention.
- · Oil the blades.

## 11. Disposal

When disposing your machine, fuel or oil for the machine, be sure to allow your local regulations.

## 12. Troubleshooting guide

Case 1. Starting failure

CHECK	PROBABLE CAUSES		ACTION	
fuel tank	→ incorrect fuel	$\rightarrow$	drain it and use correct fuel	-
fuel filter	→ fuel filter is clogged	$\rightarrow$	clean	-
carburetor adjustment screw	→ out of normal range	$\rightarrow$	adjust to normal range	-
sparking (no spark)	→ spark plug is fouled/wet	$\rightarrow$	clean/dry	-
	→ plug gap is incorrect	$\rightarrow$	correct (GAP: 0.6 ~ 0.7 mm)	
spark plug	→ disconnected	$\rightarrow$	retighten	-

Case 2. Engine starts but does not keep running/hard re-starting

CHECK		PROBABLE CAUSES		ACTION
fuel tank	$\rightarrow$	incorrect fuel or staled fuel	$\rightarrow$	drain it and use correct fuel
carburetor adjustment screw	$\rightarrow$	out of normal range	$\rightarrow$	adjust to normal range
muffler, cylinder (exhaust port)	$\rightarrow$	carbon is built-up	$\rightarrow$	wipe away
air cleaner	$\rightarrow$	clogged with dust	$\rightarrow$	wash
cylinder fin, fan cover	$\rightarrow$	clogged with dust	$\rightarrow$	clean

When your unit seems to need further service, please consult with our ZENOAH service shop in your area.

## **Limited warranty**

Should any failure occur on the product under normal operating conditions within the applicable warranty period, the failed part will be replaced or repaired free of charge by a ZENOAH authorized dealer.

WARRANTY PERIOD: 1 year (6 months if used professionally, and 30 days if used for rental purpose) from the date of initial purchase.

THE PURCHASER SHALL BEAR COSTS OF TRANS-PORTING THE UNIT TO AND FROM THE ZENOAH DEALER.

THE PURCHASER SHALL NOT BE CHARGED FOR DIAGNOSTIC LABOR WHICH LEADS TO THE DETERMINATION THAT A WARRANTED PART IS DEFECTIVE, IF THE DIAGNOSTIC WORK IS PERFORMED AT THE ZENOAH DEALER.

THE PURCHASER OR OWNER IS RESPONSIBLE FOR THE PERFORMANCE OF THE REQUIRED MAINTENANCE AS DEFINED BY THE MANUFACTURER IN THE OWNER/OPERATOR MANUAL.

ANY WARRANTED PART WHICH IS NOT SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE, OR WHICH IS SCHEDULED ONLY FOR REGULAR INSPECTION TO THE EFFECT OF REPAIR OR "REPLACE AS NECESSARY" SHALL BE WARRANTED FOR THE WARRANTY PERIOD. ANY WARRANTED PART WHICH IS SCHEDULED FOR REPLACEMENT AS REQUIRED MAINTENANCE SHALL BE WARRANTED FOR THE PERIOD OF TIME UP TO THE FIRST SCHEDULED REPLACEMENT POINT FOR THE PART.

ANY REPLACEMENT PART THAT IS EQUIVALENT IN PERFORMANCE AND DURABILITY MAY BE USED IN NON-WARRANTY MAINTENANCE OR REPAIRS. AND SHALL

NOT REDUCE THE WARRANTY OBLIGATION OF THE COMPANY.

THE COMPANY IS LIABLE FOR DAMAGES TO OTHER ENGINE COMPONENTS CAUSED BY THE FAILURE OF A WARRANTED PART STILL UNDER WARRANTY.

THE WARRANTY DOES NOT APPLY TO THOSE UNITS WHICH HAVE BEEN DAMAGED BY NEGLIGENCE OF INSTRUCTION LISTED IN THE OWNER/OPERATOR MANUAL FOR PROPER USE AND MAINTENANCE OF THE UNITS ACCIDENT MISHANDLING, ALTERATION, ABUSE, IMPROPER LUBRICATION, USE OF ANY PARTS OR ACCESSORIES OTHER THAN THOSE SPECIFIED BY THE COMPANY, OR OTHER CAUSES BEYOND THE COMPANY'S CONTROL.

THIS WARRANTY DOES NOT COVER THOSE PARTS REPLACED BY NORMAL WEAR OR HARMLESS CHANGES IN THEIR APPEARANCE.

#### THERE ARE NO OTHER EXPRESS WARRANTIES.

**IMPLIED WARRANTIES** INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE **ARE LIMITED** TO TWO (2) YEARS OF HOME USE [ONE (1) YEAR FOR ANY OTHER USE] FROM THE ORIGINAL DELIVERY DATE.

LIABILITIES FOR INCIDENTAL OR CONSEQUENTIAL DAMAGE UNDER ANY AND ALL WARRANTIES ARE EXCLUDED.

IF YOU NEED TO OBTAIN MORE INFORMATION, PLEASE CALL YOUR NEAREST SERVICE CENTER, OR CHECK PLEASE ZENOAH WEB SITE

http://www.zenoah.net